S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
							28	1650	46200.00
91	Supply, installtion, testing and commissioning of UPVC TEE 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work								
		Nos		7	7		49		
							49	2750	134750.00
92	c) 400 MM directions of the Engineer-In-charge of the work								
		Nos		1	7		7		
				1	3		3		
							10	18055	180550.00
93	e)160 MM directions of the Engineer-In-charge of the work								
	Inlets pipes-7 rows each 1 Row 10 Nos	Nos		1	7		7		
							7	1650	11550.00
94	Supply, installtion, testing and commissioning of UPVC REDUCER 6 KG/SQCM a) 160/400 directions of the Engineer-In-charge of the work								
		Nos		1	7		7		
							7	20800	145600.00
95	63/160 directions of the Engineer-In-charge of the work								
	nlets pipes-7 rows each 1 Row 10 Nos	Nos		7	7		49		
							49	1090	53410.00
96	Supply, installtion, testing and commissioning of STARTING BLOCKS FIBREGLASS 400 mm height non slip finish 0.5x 0.5m with nos 1 to 9 with anchoring fixtures directions of the Engineer-In-charge of the work								
		Nos		1	6		6	-	
	SANITARY FITTINGS & FIXTURES						6	26220.00	157320.00
97	Providing and fixing of white colour vitreous China clay,water closet **European type** (pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,PVC flush cistern (all are approved make) with fitting CI/MS brackets, 40mm diameter flush bend with fittings and clamp, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no77,It no.12.5)								
	change room	Nos		1	10		10		
	Basic rate							5130.00	
	Area weightage 8%							410.4	
	Total						10.00	5540.40	55404.0
98	Providing and fixing of white colour vetreous China clay flat back. lipped front **urinal basin** of 430x260x350mm with 5 litres PVC automatic flushing cistern, CI /MS brackets, standard flush pipe and CP brass spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11(P.no 75,It no.12.7)								
	change room	Nos		1	5		5		

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
	Basic rate							2967.00	
	Area weightage 8%							237.36	
	Total						5.00	**3204.36**	**16021.8**
99	Providing and fixing of white colour vetreous China clay flat back **wash basin** size 630x450mm with a single 15mm CP brass piller tap with CI / MS brackets, 32 mm CP brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no78 It.no.12.24)								
	change room	Nos		1	10		10		
	Basic rate							3007.00	
	Area weightage 8%							240.56	
	Total						**10.00**	**3247.56**	**32475.6**
100	Providing and fixing 600x450mm bevel lead **edge mirror** of superior glass with 6mm hard board backing and fixed to wooden cleats with CP screws, washers, including cost of materials, labour complete as per specifications.(P.no 79,It no.12.39)								
	change room	Nos		1	10		10		
	Basic rate							1251.00	
	Area weightage 8%							100.08	
	Total						**10.00**	**1351.08**	**13510.8**
101	Providing and fixing C.P brass **towel rail** 740mm length, 20 mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specification.(P.no 80,It no.12.45)								
	change room	Nos		1	10		10		
	Basic rate							783.00	
	Area weightage 8%							62.64	
	Total						**10.00**	**845.64**	**8456.4**
102	Providing and fixing 15mm dia Bib Cock								
	wash basin, urinals, flush tanks	Nos		1	30		30		
	Total						**30.00**	**180.00**	**5400.0**
103	Providing and fixing Brass Union 15mm nominal bore with PVC Connection pipe 300mm length								
	wash basin, urinals, flush tanks	Nos		1	30		30		
	Total						**30.00**	**160.00**	**4800.0**
104	Providing and fixing in position brass stop cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 20mm nominal bore								
	wash basin, urinals, flush tanks	Nos		1	30		30		
	Basic rate							160.00	
	Area weightage 8%							12.8	
	Total						**30.00**	**172.80**	**5184.0**

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
105	Providing and fixing in position brass bib cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 15mm nominal bore								
		Nos		1	15		15		
	Basic rate							231.00	
	Area weightage 8%							18.48	
	Total						**15.00**	**249.48**	**3742.2**
	WATER SUPPLY								
106	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal OD pipe								
		Mtr		10	15		150		
	Basic rate							165.00	
	Area weightage 8%							13.2	
	Total						**150.00**	**178.20**	**26730.0**
107	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 50mm nominal OD Pipe								
		Mtr		10	1		10		
	Basic rate							450.00	
	Area weightage 8%							36	
	Total						**10.00**	**486.00**	**4860.0**
108	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 100mm Nominal OD Pipe								
		Mtr		10	1		10		
	Basic rate							2380.00	
	Area weightage 8%							190.4	
	Total						**10.00**	**2570.40**	**25704.0**
109	Providing and fixing water meter with stop cock, jam nut, socket in G.I pipe line including cutting and threading the pipe and making long screws including cost of all materials, labour , HOM of equipments and testing complete as per specificationsKSRB(Pag no 88. Itm 13.22)								
		Nos		1	1		1		
	Basic rate							1318.00	
	Area weightage 8%							105.44	
	Total						**1.00**	**1423.44**	**1423.4**
110	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm nominal Dia								
		Nos		1	1		1		
	Basic rate							606	
	Area weightage 8%							48.48	
	Total						**1.00**	**654.48**	**654.5**

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
111	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification. 50mm Nominal Dia								
		Nos		1	4		4		
	Basic rate							2052	
	Area weightage 8%							164.16	
	Total						4.00	2216.16	8864.6
112	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm dia								
		Nos		1	4		4		
	Basic rate							600	
	Area weightage 8%							48.00	
	Total						4.00	648.00	2592.0
113	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.80mm dia								
		Nos		1	4		4		
	Basic rate							3059	
	Area weightage 8%							244.72	
	Total						4.00	3303.72	13214.9
	DRAINAGE WORKS								
114	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia								
		Mtr		1	100		100		
	Basic rate							346	
	Area weightage 8%							27.68	
	Total						100.00	373.68	37368.0
115	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 90mm dia								
		Mtr		1	100		100		
	Basic rate							571	
	Area weightage 8%							45.68	
	Total						100.00	616.68	61668.0
116	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia								
		Mtr		1	100		100		
	Basic rate							717	
	Area weightage 8%							57.36	
	Total						100.00	774.36	77436.0

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
117	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cmsx 7.5 (Pag no 85. Itm 12.113.1)								
		Nos		1	30		30		
	Basic rate							250	
	Area weightage 8%							20.00	
	Total						**30.00**	**270.00**	**8100.0**
118	Providing and fixing 7.5 cms to 15.00 cms dia NP granting 100 mm dia Pag no 85. Itm 12.111 -								
		Nos		1	30		30		
	Basic rate							160	
	Area weightage 8%							12.80	
	Total						**30.00**	**172.80**	**5184.0**
119	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table mounted non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x 600mm internal dimensions, total weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications								
		Nos		1	10		10		
	Basic rate							7041	
	Area weightage 8%							563.26	
	Total						**10.00**	**7604.00**	**76040.0**
120	providing and fixing on wall surface 4 kg/sq.cm HDPE rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications (P.No. 47, I.No. 8.19)								
		Mtr		20	15		300		
	Basic rate							568	
	Area weightage 8%							45.44	
	Total						**300.00**	**613.44**	**184032.0**
121	Providing & fixing of glazed Openable Window made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanixed iron profiles throuhout the window. The outer frame having a overall size of 60x55 mm with reinforcement of 1 mm thickness, mullion with overall size of 74x60 mm with reinforcement of 1 mm and sash with overall size of 75x60 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 34x20 mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame, mullion & sash shall be 2-2.2 mm.								
	Gents bathroom	Sqm	1	10.00	0.75	2.10	15.75		
	Ladies bathroom	Sqm	1	10.00	0.75	2.10	15.75		
	Gents bathroom	Sqm	1	10.00	0.75	2.10	15.75		
	Ladies bathroom	Sqm	1	10.00	0.75	2.10	15.75		

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
	office room	Sqm	1	1.20		2.10	2.52		
	B/w Gym room & Batmitun court	Sqm	1	2.00		2.10	4.20		
	W	Sqm	0.5	8.00	2.50	1.50	15.00		
	V	Sqm	0.5	16.00	0.60	0.60	2.88		
	Basic rate							7000	
	Area weightage 8%							560.00	
	Total						87.60	7560.00	662256.0
	ELECTRICAL WORKS								
122	**PART A:- SUBSTATION EQUIPMENT** Supply and erection of 11Mtr Spun Pole including earth work etc,. complete as per the standard technical specification directions of the Engineer-In-charge of the work						1.00	**22957.00**	**22957.00**
123	Supply And Fixing of Single Pole Mounted Transformer Kit for 100/250KVA on 11Mtr Spun Pole etc. complete as per the standard technical specification of directions of the Engineer-In-charge of the work						1.00	**31800.00**	**31800.00**
								Each	
124	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work 5.8.8) GOS Set 200 Amps Single break						1.00	**9840.00**	**9840.00**
								Each	
125	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work5.8.1) H Frame Set						1.00	**4560.00**	**4560.00**
								Each	
126	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification 5.4.3) Horizontal. 50x450x6mm -980mm directions of the Engineer-In-charge of the work						2.00	**562.00**	**1124.00**
								Each	
127	Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification 5.9.4) Disc Insulator 70/90 KN directions of the Engineer-In-charge of the work						6.00	**540.00**	**3240.00**
								Each	
128	Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification 5.9.3)11 KV Pin Insulator directions of the Engineer-In-charge of the work						6.00	**114.00**	**684.00**
								Each	
129	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification 5.8.8)HT ST Support 50x8 mmdirections of the Engineer-In-charge of the work						2.00	**172.00**	**344.00**
								Each	
130	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification 5.4.1)4 Pin 45x45x5mm -1110mm directions of the Engineer-In-charge of the						4.00	**461.00**	**1844.00**
								Each	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
131	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification 5.8.10)Horn Gap Fuse Unit (H.G.) directions of the Engineer-In-charge of the work						1.00	1320.00	1320.00
								Each	
132	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification 5.8.12)Lightning Arrestor 9KV 5kA polymeric type. directions of the Engineer-In-charge of the work						1.00	4250.00	4250.00
								Each	
133	Supplying erection, testing and commissioning of 11kV Load Break Switch with 4 wire- (with Neutral) Metering cubicle and connected accessories, hardware's etc. suitable for outdoor type complete as per latest IS standard technical specification. LBS should be approved by BESCOM						1.00	319987.00	319987.00
								Each	
134	Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07 directions of the Engineer-In-charge of the work						2.00	163.00	326.00
								No	
135	GI Pipes B - Class GI Pipe - 150 mm Dia Dia 768058 directions of the Engineer-In-charge of the work						10.00	1144.00	11440.00
								Mtrs	
136	TRANSFORMER:- Supplying, erecting, testing and commissioning of ..... KVA capacity Copper wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to-10% Steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification. 8.10.2) 100 KVA directions of the Engineer-In-charge of the work						1.00	328700.00	328700.00
								Each	
137	LT KIOSK:- LT Distribution Box for 63/100 KVA Transformer with 1No 160Amps 25kA 4Pole MCCB, suitable capacity aluminum bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Transformer Centre directions of the Engineer-In-charge of the work						1.00	18270.00	18270.00
								Set	
138	B. EARTHING SYSTEM Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia directions of the Engineer-In-charge of the work						6.00	2727.00	16362.00
								Each	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
139	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. directions of the Engineer-In-charge of the work						8.00	4317.00	34536.00
								Each	
140	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work						17.00	523.00	8891.00
								Mtr	
141	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work						12.00	1018.00	12216.00
								Mtr	
142	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm plate directions of the Engineer-In-charge of the work						4.00	7148.00	28592.00
								Each	
143	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip directions of the Engineer-In-charge of the work						109.00	77.00	8393.00
								Mtr	
144	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm GI strip directions of the Engineer-In-charge of the work						20.00	166.00	3320.00
								Mtr	
145	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI Plate directions of the Engineer-In-charge of the work						4.00	784.00	3136.00
								Each	
146	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG directions of the Engineer-In-charge of the work						35.00	19.50	682.50
								Mtr	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
147	PART C:-L.T Panel boards and distribution boards 1.0) Main LT Panel "Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 6.40.1) 14SWG" directions of the Engineer-In-charge of the work						173440.00	0.37	64172.80
								Sqm	
148	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.5) 75x150x75x6mm C channel directions of the Engineer-In-charge of the work						5.00	791.00	3955.00
								mtr	
149	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE 200Amps 35kA.(Incoming) directions of the Engineer-In-charge of the work						1.00	14592.00	14592.00
								Each	
150	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE125-160Amps 25kA.(Outgoing) directions of the Engineer-In-charge of the work						3.00	7372.00	22116.00
								Each	
151	Supplying and fixing of Shunt trip suitable for MCCB.CBCT. directions of the Engineer-In-charge of the work						4.00	1486.00	5944.00
								Each	
152	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work						3.00	418.00	1254.00
								Each	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
153	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16. 5-32Amps TPN (Outgoing) directions of the Engineer-In-charge of the work						6.00	**1547.00**	**9282.00**
								Each	
154	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work						3.00	**442.00**	**1326.00**
								Each	
155	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work						1.00	**390.00**	**390.00**
								Each	
156	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work						1.00	**140.00**	**140.00**
								Each	
157	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work						1.00	**415.00**	**415.00**
								Each	
158	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work						1.00	**172.00**	**172.00**
								Each	
159	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work						1.00	**8003.00**	**8003.00**
								Each	
160	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work						3.00	**483.00**	**1449.00**
								Each	
161	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. directions of the Engineer-In-charge of the work						1.00	**7998.00**	**7998.00**
								Each	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
162	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work						3.00	**2942.00**	**8826.00**
								mtr	
163	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.6.12.1) 25Amps directions of the Engineer-In-charge of the work						4.00	**1303.00**	**5212.00**
								Each	
164	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. directions of the Engineer-In-charge of the work						20.00	**414.00**	**8280.00**
								Nos	
165	Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect / disconnect banks, with automatic recognition or with standard programs. directions of the Engineer-In-charge of the work						1.00	**18660.00**	**18660.00**
								Each	
166	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.5) 75x150x75x6mm C channel directions of the Engineer						5.00	**791.00**	**3955.00**
								mtr	
167	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work						3.00	**418.00**	**1254.00**
								Each	
168	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63 Amps TPN (Outgoing) directions of the Engineer-In-charge of the work						6.00	**1936.00**	**11616.00**
								Each	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
169	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work						3.00	442.00	1326.00
								Each	
170	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work						1.00	390.00	390.00
								Each	
171	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work						1.00	140.00	140.00
								Each	
172	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work						1.00	415.00	415.00
								Each	
173	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work						1.00	172.00	172.00
								Each	
174	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work						3.00	483.00	1449.00
								Each	
175	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work						1.00	8003.00	8003.00
								Each	
176	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor. 6.2.1) Upto 12.5 HP directions of the Engineer-In-charge of the work						4.00	6583.00	26332.00
								Each	
177	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work						5.00	2942.00	14710.00

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
								mtr	
178	3.0) MCB Distribution Boards Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door 6.17.7) 4Way TP &N directions of the Engineer-In-charge of the work						3.00	2399.00	7197.00
								Each	
179	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps TPN directions of the Engineer-In-charge of the work						3.00	1547.00	4641.00
								Each	
180	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps SP directions of the Engineer-In-charge of the work						36.00	418.00	15048.00
								Each	
181	PART D:-SUBMAINS CIRCUIT MAINS/POWER WIRING Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work						469.00	54.00	25326.00
								mtr	
182	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia 2mm thick directions of the Engineer-In-charge of the work						282.00	70.00	19740.00
								mtr	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
183	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work						162.00	100.00	16200.00
								mtr	
184	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work						408.00	43.00	17544.00
								mtr	
185	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work						1453.00	57.00	82821.00
								mtr	
186	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary32mm dia 2.5mm thick directions of the Engineer-In-charge of the work						282.00	90.00	25380.00
								mtr	
187	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the						10.00	56.00	560.00
								mtr	

S.No	DESCRIPTION OF WORK	UNIT	N	L	B	D	QTY	RATE	AMOUNT
188	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe ….dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick directions of the Engineer-In-						750.00	58.00	43500.00
								mtr	
189	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe ….dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.32mm dia 2.5mm thick directions of the Engineer-In-charge of the work						400.00	88.00	35200.00
								mtr	
190	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Short point upto 3Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work						13.00	174.00	2262.00
								Point	
191	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work						24.00	245.00	5880.00
								Point	
192	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work						172.00	363.00	62436.00
								Point	